

Ashley M. Simonsen (Bar No. 275203)  
COVINGTON & BURLING LLP  
1999 Avenue of the Stars  
Los Angeles, California 90067  
Telephone: (424) 332-4800  
Facsimile: (424) 332-4749  
Email: asimonsen@cov.com

*Attorneys for Defendants Meta Platforms, Inc.  
f/k/a Facebook, Inc.; Facebook Holdings, LLC;  
Facebook Operations, LLC; Meta Payments Inc.  
f/k/a Facebook Payments Inc.; Meta Platforms  
Technologies, LLC f/k/a Facebook Technologies,  
LLC; Instagram, LLC; and Siculus LLC f/k/a  
Siculus, Inc.*

*[Additional counsel listed on signature pages]*

UNITED STATES DISTRICT COURT  
FOR THE NORTHERN DISTRICT OF CALIFORNIA  
OAKLAND DIVISION

IN RE: SOCIAL MEDIA ADOLESCENT  
ADDICTION/PERSONAL INJURY PRODUCTS  
LIABILITY LITIGATION

This Document Relates To:

*ALL ACTIONS*

MDL No. 3047

Case No.: 4:22-md-03047-YGR

**DECLARATION OF MANUEL ARROYO  
IN SUPPORT OF META'S POSITION  
REGARDING MDL PLAINTIFFS'  
INTERROGATORY NO. 6**

Judge: Hon. Yvonne Gonzalez Rogers  
Magistrate Judge: Hon. Peter H. Kang

**DECLARATION OF MANUEL ARROYO IN SUPPORT OF META'S POSITION  
REGARDING MDL PLAINTIFFS' INTERROGATORY NO. 6**

I, Manuel Arroyo, declare as follows:

1. I am a Data Scientist who works within the Legal Department at Meta Platforms, Inc. ("Meta"). I am part of the team that is responsible for organizing, interpreting, analyzing, and summarizing structured data in order to support certain internal legal teams, outside counsel, and operations teams in connection with legal proceedings. I have personal knowledge of the following facts, or as to matters that are not within my personal knowledge, I have made a reasonable inquiry, and I am informed and believe that those facts are true and correct. If called as a witness, I could and would testify competently thereto.

2. When working with large datasets in the warehouse, Meta data scientists typically use Presto, an industry standard, open-source software suite initially developed by Meta and now publicly used for querying databases. Presto is optimized for working with high-volume data.

3. Presto has a built-in function called `approx_percentile`, which approximates percentiles in large datasets. Meta uses this function in the ordinary course of business. Meta does not calculate exact percentiles in the ordinary course of business for large datasets because the amount of time to compute exact percentiles is excessive. In fact, Meta's current Presto suite does not even include a built-in function to calculate exact percentiles.

4. The `approx_percentile` function has a parameter called "accuracy" that specifies the precision of the approximated percentiles. Meta's company-wide default is to use an "accuracy" set at 1.33 percent. The 1.33% error rate means that the percentile identified by the algorithm for each value is guaranteed to be within 1.33% of the exact percentile. For example, for the value that the function returns for the 70<sup>th</sup> percentile, the exact percentile for that value would fall somewhere between the 67.87<sup>th</sup> and 71.33<sup>rd</sup> percentile.

Executed on December 2nd, 2025, in Chicago, Illinois.

Manuel Arroyo

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2 DATED: December 2, 2025  
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Respectfully submitted,

4 By: /s/ Ashley M. Simonsen

5 Ashley M. Simonsen (Bar No. 275203)  
6 COVINGTON & BURLING LLP  
7 1999 Avenue of the Stars  
8 Los Angeles, California 90067  
9 Telephone: (424) 332-4800  
10 Facsimile: (424) 332-4749  
11 Email: asimonsen@cov.com

12 Phyllis A. Jones (*pro hac vice*)  
13 Paul W. Schmidt (*pro hac vice*)  
14 COVINGTON & BURLING LLP  
15 One City Center  
16 850 Tenth Street, NW  
17 Washington, DC 20001-4956  
18 Telephone: (202) 662-6000  
19 Facsimile: (202) 662-6291  
20 Email: pajones@cov.com  
21 Email: pschmidt@cov.com

22 *Attorneys for Defendants Meta Platforms, Inc.*  
23 *f/k/a Facebook, Inc.; Facebook Holdings,*  
24 *LLC; Facebook Operations, LLC; Meta*  
25 *Payments Inc. f/k/a Facebook Payments Inc.;*  
26 *Meta Platforms Technologies, LLC f/k/a*  
27 *Facebook Technologies, LLC; Instagram,*  
28 *LLC; and Siculus LLC f/k/a Siculus, Inc.*